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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/553,404	06/29/2006	Martin Brenner	016906-0434	3714
22428 7590 98/17/2009 FOLEY AND LARDNER LLP SUITE 500			EXAMINER	
			SORKIN, DAVID L	
3000 K STREET NW WASHINGTON, DC 20007			ART UNIT	PAPER NUMBER
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			MAIL DATE	DELIVERY MODE
			08/17/2009	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Application No. Applicant(s) 10/553,404 BRENNER ET AL. Office Action Summary Examiner Art Unit DAVID L. SORKIN 1797 -- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS. WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b). Status 1) Responsive to communication(s) filed on 07 May 2009. 2a) This action is FINAL. 2b) This action is non-final. 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4) Claim(s) 1-18 is/are pending in the application. 4a) Of the above claim(s) _____ is/are withdrawn from consideration. 5) Claim(s) _____ is/are allowed. 6) Claim(s) 1-18 is/are rejected. 7) Claim(s) _____ is/are objected to. 8) Claim(s) _____ are subject to restriction and/or election requirement. Application Papers 9) The specification is objected to by the Examiner. 10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abevance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. Priority under 35 U.S.C. § 119 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.

1) Notice of References Cited (PTO-892)

Paper No(s)/Mail Date _

Notice of Draftsperson's Patent Drawing Review (PTO-948)
 Notice of Draftsperson's Patent Drawing Review (PTO-948)
 Notice of Draftsperson's Patent Drawing Review (PTO-948)

Attachment(s)

Interview Summary (PTO-413)
 Paper No(s)/Mail Date. _____.

6) Other:

5) Notice of Informal Patent Application

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DETAILED ACTION

Claim Rejections - 35 USC § 112

- The following is a quotation of the second paragraph of 35 U.S.C. 112:
 The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.
- 2. Claims 4-18 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. Claims 4, 7, 10, 12 and 14-18 are rendered indefinite by the phrase "in particular" as it is unclear what is required versus exemplary. In claims 5, 6 and 12, there is lack of antecedent basis for "the at least one reaction chamber". In claims 8 and 9, there is lack of antecedent basis for "the main direction of flow". Claims 11 and 12 are rendered indefinite by the vague term "if appropriate". In claim 11, there is lack of antecedent basis for "the temperature control medium". In claim 13, there is lack of antecedent basis for "the two outermost plates". In claims 14 and 15, there is lack of antecedent basis for "the plates or sheets". In claim 15, there is lack of antecedent basis for "the plates or sheets". In claim 15, there is

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- While it is unclear what is being claimed in claims 4-18, all the claims have been considered with regard to the prior art to the extent possible.

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5. Claims 1-18 are rejected under 35 U.S.C. 102(b) as being anticipated by Ashmead et al. (US 5,534,328). Regarding claims 1, 4, 6 and 7, Ashmead discloses a device having a mixing chamber (64) wherein a wall of the mixing chamber has a temperature control channel (for example 74). Regarding claim 2, energy can be feed or removed electrically (see col. 10, lines 26-38). Regarding claim 3 and 8-10, energy can be fed or removed from the at least one mixing chamber by a medium through the channel (see col. 9, lines 15-16). Regarding claim 5, the chamber may be provided with a catalyst (see col. 13, lines 11-21). Regarding claim 11, an inlet (20 or 24) is disclosed. Regarding claims 12-15, the wall comprises a plurality of plates or sheets bearing against one another (200,300,400, etc.). Regarding claim 16, see col. 3, lines 4-23 for material of which the device is made, which include metal and plastic. Regarding claims 17 and 18, "The patentability of a product does not depend on its method of production" *In re Thorpe*, 777 F.2d 695, 698, 227 USPQ 964, 966 (Fed. Cir. 1985), nonetheless see col. 6, lines 39-54.

Claim Rejections - 35 USC § 103

- The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- Claims 14 and 15 are rejected under 35 U.S.C. 103(a) as being unpatentable over Ashmead et al. (US 5,534,328). In the alternative that the dimensions recited in

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these claims are those of required elements of the claimed device, see In re Rose, 220 F.2d 459, 105 USPQ 237 (CCPA 1955) regarding the obviousness of selecting a size.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to DAVID L. SORKIN whose telephone number is (571)272-1148. The examiner can normally be reached on Mon.-Fri. 7:30AM-4:00PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Walter D. Griffin can be reached on 571-272-1447. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/DAVID L. SORKIN/ Primary Examiner, Art Unit 1797